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APPLICATION NO.	Fil	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,528	06/25/2003		David P. Quigley	8222-42	4126
54620	7590	10/17/2006		EXAMINER	
KRIEG DEVAULT LLP				KWON, JOHN	
ONE INDIA		.RE			
SUITE 2800				ART UNIT	PAPER NUMBER
INDIANAPOLIS, IN 46204-2079				3747	

DATE MAILED: 10/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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## Applicant(s) Application No. QUIGLEY ET AL. 10/603.528 Office Action Summary **Examiner** Art Unit John T. Kwon 3747 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). **Status** 1) Responsive to communication(s) filed on <u>03 October 2006</u>. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) $\boxtimes$ Claim(s) <u>1-4,6,8,13-20 and 27-32</u> is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4, 6, 8, 13-20 and 27-32 is/are rejected. 7) Claim(s) \_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some \* c) ☐ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. \_\_\_ 5) Motice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

Claims 1-4, 6, 8 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitation of "the sidewall portion extending parallel to the centerline..." is a new matter since the original specification disclosed as a **substantially parallel** (page 8, lines 4-5).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 8, 13-20 and 27-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griser (US 6 539 910) in view of Hoffmann (US 5 605 126). Griser discloses a piston with an annular surface (14). A combustion bowl is defined by a circumferential sidewall and a bottom wall portion. The sidewall has a sharp edge at the intersection with the annular surface (14) and **substantially** parallel to the centerline. An upward flared portion is located between the sharp portion and the rounded portion (18). However, Griser does not show the use

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of a solid head portion of a piston. Hoffmann shows that the provision of a solid piston head is old and well known in the art. Since the prior art references art from the same field of endeavor, the purpose disclosed by Hoffmann would have been recognized in the pertinent art of Griser. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the device of Griser with the solid head as taught by Hoffmann.

### Response to Arguments

Applicant's arguments filed October 6, 2006 have been fully considered but they are not persuasive. The attorney argues that the Griser reference is not qualified because features that is not described in the text and is not represented clearly in the drawings. The examiner disagreed because the drawings in the references are qualified as prior art features even though unexplained by the specification. In re Mraz, 173 USPQ 25, In re Ming, 181 USPQ 94, 97. Accordingly, Griser clearly shows the provision of the sharp edges and wall that is substantially parallel to the centerline.

#### **Conclusion**

This is a RCE of applicant's earlier Application No. 10/603,528. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in

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this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John T. Kwon whose telephone number is (571) 272-4846. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Cronin can be reached on (571) 272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John T. Kwon
Primary Examiner
Art Unit 3747

October 13, 2006